

Date: Mon, 18 Oct 93 22:02:43 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #1241  
To: Info-Hams

Info-Hams Digest                      Mon, 18 Oct 93                      Volume 93 : Issue 1241

Today's Topics:

    "Re: List of FM Stations Using SCA"  
        BBS Information  
        FT-470 Intermod problems  
        Help identify K2-W  
        Latest Callsigns?????  
    magnetic fields from gear (2 msgs)  
        Modifications for Yaesu 2700?  
    More info on dual band HTs needed  
        MOTOROLA  
        Newsline #842  
    Reciprocol agreements with other countries  
        ZD9SXW - QRT 160m (+80m?)

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 19 Oct 93 00:06:13 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: "Re: List of FM Stations Using SCA"  
To: info-hams@ucsd.edu

Probably the best list of FM stations using SCA that you can easily find is  
contained in Bruce Elving's "FM Atlas". He puts out a new one every year or so,  
and one must be due about now.

Contact:        Bruce F. Elving, Ph D  
                FM Atlas

Box 336  
Esko, MN 55733-0336 USA

The total cost will run under \$15, and lists ALL the FM stations and translators in the USA and Canada.

73, Bob Carpenter, W3OTC .... a satisfied customer.  
w3otc@amsat.org

PS He lists formats, power, height, SCA frequencies, etc, etc, etc.....

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Date: 18 Oct 1993 19:54:24 GMT  
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!noc.near.net!  
transfer.stratus.com!amateur1.cac.stratus.com!jay@network.ucsd.edu  
Subject: BBS Information  
To: info-hams@ucsd.edu

The response to the BBS posting was overwhelming with over 130 calls in 2 days. Keep the following information in mind. The folks at Alinco wanted to support this board with little fuss, and we really appreciate it. It was upto the BBS at their option to make available all ALINCO files for free downloading. They are pleased to make these files available, so feel free to download and place onto other boards across the country.

With exception to these and files in the free file dir, a subscription is otherwise required and posted in this message.

Other forums deal with Multimedia, Education, Public Safety etc.

What this BBS will offer unlike others will be theme's. Beginning next month we will solicit "What would be the ultimate handheld". With this will be your input on what radio you found to be the best. The SYSOP will announce hours of consultation. This regular forum will help you with amateur radio problems.

I have solicited help from Mr. Gordon West (WB6NOA) and he is delighted to participate in this new Digital forum. Gordon and I worked on the DJ-580 tape for Alinco. If you didn't get one with your new radio, just call Alinco and ask for it, it's no charge. He would be interested in hearing from you on the following areas of concern:

1. Maritime Mobile
2. Mobile Vehicle Mobile
3. Aeronautical Mobile
4. Grounding
5. Feed Point impedance
6. And More.

Due to Gordons schedule, I will prepare a list of questions that you raise specifically for him and will post his answers when they become available. Allow 3-4 weeks for his response. All Q&A will appear on the BBS and here on the internet. He is very excited about this endeavor.

Other areas will deal with product returns and how to do that effectively. I will also call upon other amateur radio professionals to help out. With contacts at these companies we will try to keep you upto date.

If you would like to login into the BBS, the phone is 508-478-1429 (24hr).

I have found that second hand information is not always accurate or informative. Perhaps this program will offer amateurs an alternative.

Your interest and support is appreciated.

Jay Appell (KA1SNA)

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Date: 18 Oct 1993 13:22:40 -0700  
From: news.service.uci.edu!paris.ics.uci.edu!not-for-mail@network.ucsd.edu  
Subject: FT-470 Intermod problems  
To: info-hams@ucsd.edu

In <29u178INNf2t@flop.ENGR.ORST.EDU> kayd@prism.CS.ORST.EDU (Kayd) writes:

>I have an FT-470 that is about 6 months old and I'm having intermod problems  
>when I have both 2m and 70cm receive turned on. Not to mention the low  
>selectivity that allows paging systems to blurp through on top of everything.  
>A while ago I heard rumours that the FT-470 could be sent to Yaesu for a  
>modification to reduce the problem....Is that true? And where do I send my  
>unit?

Hello Darrek:

Since your 470 is 6 months old, it has the latest, greatest stuff in it. There was maybe a problem with early models, and Yaesu took care of it. However, you may have an IF freq set to some special pager freq (or it just may add up to / mix up to that freq for some reason) and I think Yaesu will change a few things for you - but they explain that this will not usually "cure" the problem - only change the pagers you might hear.

The 470 has a very sensitive receiver, and is built in a small package. If you use a gain antenna, you will most certainly experience a LOT of RF coming into the little receiver, and it has too few defenses to deal with it. I find that with the rubber duck, I have few problems, when I attach

the mag mount on the car and drive through "RF row", I start to hear other stuff.

It is hard to tell how bad your problem is without having several other radios similarly tuned (and on similar antennas) there with you. Then see if the 470 is far worse - you may then benefit from some other work to the radio. I have found that the other HT's all basically suffer (some more - some less, but all have the problem), whereas the larger radios seem to have more immunity to the problem.

Good luck. I have two 470's and enjoy them a lot (one is over 2 years old and still very happy, though the case is in tatters!), but I deal with some intermod in some areas.

Clark

.....

Clark Savage Turner, Graduate Student Researcher  
Safety Critical Software Group home:  
Department of Info. and Computer Science 1514 Verano Place  
Irvine, CA. 92717 Irvine, CA. 92715  
(714) 856 4049 (714) 856 2131

WA3JPG, QRP #3526, active on HF, VHF and UHF.  
Admitted to practice law in California, Massachusetts, and New York.  
ARRL Volunteer Counsel

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Date: 19 Oct 93 01:37:18 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Help identify K2-W  
To: info-hams@ucsd.edu

This is an operational amplifier that predates semi-conductors. It was used in analog computers to solve differential equations by using an electronic model. The approximate specs (vague, from memory): open loop gain=1000 to 15,000; output voltage range -100V. to +100V.; output current 2 to 15 ma.; power supplies= +300Vdc, -300Vdc, and 6.3Vac for filaments. The typical computer had its variables scaled to +/-100V. When transistorized amplifiers arrived, their voltages were output of +/-10V. and supply voltages of +/-15V. See a classic book in this area (I think it has a schematic of the K2-W): Electronic Analog and Hybrid Computers, G. A. Korn and T. M. Korn, McGraw-Hill.

Jeff Furman KD6MNP JFurman@spa.mhs.compuserve.com

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Date: Mon, 18 Oct 1993 18:54:55 GMT  
From: world!rbarnaby@uunet.uu.net  
Subject: Latest Callsigns?????  
To: info-hams@ucsd.edu

ST1860@SIUCVMB.SIU.EDU (Gary R. Smith KE9MI) writes:

> I was wondering if anyone had the latest calls issued...I just upgraded t  
>o extra and was attempting to get a rough idea of where the new callsign will f  
>all.....I seem to recall seeing a phone numbers that had a recording that had t  
>he latest callsigns issued...any ideas??? 73's and Thanx..Gary KE9MI soon AA9?  
>???  
>Internet: st1860@siucvmb.siu.edu  
>packet: ke9mi@kd9sg.#sil.il.usa.na

I called the ARRL. They were able to tell me 4 weeks ago that in "1" land  
the latest Advanced are KD1?? and AA1H?. Just got Advanced Call today (Oct 18)  
as KD1RU. Any extra's in "1" land get a recent call?

Richard. L. Barnaby rbarnaby@world.std.com KD1RU (AA1?? Pending)

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Date: 18 Oct 93 21:17:45 GMT  
From: sdd.hp.com!col.hp.com!srngenprp!alanb@hplabs.hpl.hp.com  
Subject: magnetic fields from gear  
To: info-hams@ucsd.edu

Gary McDuffie Sr (mcduffie@unlinfo.unl.edu) wrote:

: rfeldber@pearl.tufts.edu writes:

:>I am thinking about getting back on the air after a ten year absence. However,  
:>I am a bit concerned about magnetic fields coming off my gear. My old Kenwood  
:>TS-520s used to throw a relay on my furnace a full 30 feet away from the rig!  
:>I never thought about it at the time, but now it gives me some pause. Is the  
:>new  
:>gear any better? Are there some rigs better than others?

: Magnetics from your old 520 had nothing to do with your furnace relay.  
: RF actuated it. No magnetics would escape the case.

I agree that it was almost certainly an RF field, not a magnetic field.  
However the 60 Hz transformer in ham equipment does radiate a magnetic

field. The cabinet does little to attenuate it.

On the other hand, the fears of magnetic fields are greatly overblown, IMO. If the fields from ham gear are a problem, then so are the fields from TV sets, electric stoves, and house wiring.

AL N1AL

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Date: Mon, 18 Oct 1993 20:35:26 GMT  
From: pacbell.com!att-out!cbfsb!cbnews!cbnewst!cbnewsm!hellman@ames.arpa  
Subject: magnetic fields from gear  
To: info-hams@ucsd.edu

In article <1993Oct16.154947.1@pearl.tufts.edu>, rfeldber@pearl.tufts.edu writes:  
> I am thinking about getting back on the air after a ten year absence. However,  
> I am a bit concerned about magnetic fields coming off my gear. My old Kenwood  
> TS-520s used to throw a relay on my furnace a full 30 feet away from the rig!

I don't know what convinced you that the magnetic field from your rig was capable of pulling in a furnace relay at any distance but it didn't happen. No way! the rf must have gotten into the control circuit.

Shel WA2UBK dara@physics.att.com

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Date: 18 Oct 1993 21:07:52 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!noc.near.net!news.bbn.com!bbn.com!levin@network.ucsd.edu  
Subject: Modifications for Yaesu 2700?  
To: info-hams@ucsd.edu

I have just taken possession of a Yaesu (FT?-)2700 mobile dual band rig. It's got some age on it, and doesn't (according to the manual) do cross-band repeat, though it can do full-duplex using the two bands.

Is there a change one can make (as one can on the successor 4700) to enable this function should I want to use it?

Also, is there something that can widen the range of received frequencies beyond 144-150 and 440-450 Mhz?

Thx / JBL

=

Nets: levin@bbn.com | "There were sweetheart roses on Yancey Wilmerding's

POTS: (617)873-3463 | bureau that morning. Wide-eyed and distraught, she  
KD1ON (@KB4N.NH.USA) | stood with all her faculties rooted to the floor."  
| -- S. J. Perelman

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Date: 19 Oct 93 01:09:59 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: More info on dual band HTs needed  
To: info-hams@ucsd.edu

Subject: More Dual Band HT advice needed

Kyle Anderson (kanderso@huey.csun.edu) writes:

[stuff deleted]

>I hear good and bad things about the Kenwood  
>TH-78A, mostly good. I have never used one but I don't really like  
>Kenwood's, everythings an option policy for their equipment.

[more deleted]

>Any info or comments on the above  
>HT's or one I haven't listed would be appreciated.

Well, let me say this about that . . . :-)

For the most part, I have been happy with my TH-78A. The only "option" really was the additional memory, \$20 something and well worth it. CTSS, DTSS, PL all onboard out of the box.

Having said all that, now the bad news -- and a fix!

The weak link on this HT is a chip cap on the controller board, C-17. If you drop the radio, you WILL lose C-17. The left hand receiver loses audio (C-17 is a dc filter on the audio coupler to the amp). Each time this is repaired, the bond to C-17 is a little weaker, making future problems more likely. The root cause of all this is the pads for C-17 being too small for the mass of the chip. The fix: glue it down with a fill type cyanoacrylate glue (like Zap-a-gap (tm)), the use of zip-kicker (tm) to speed cureing helps.

Having learned all this the hard way, and having had the repair done without adding the glue, I have now induced a problem with the radio locking up, requiring a removal of the battery to get control back. About 75% of the time, this results in a reset of the call channels and some ancillary memory functions. This is not fun. I suspect a poor

solder joint or damaged ribbon connector. Anyone with a good idea, let me know.

Of course, all this could have been avoided had I not dropped the HT that first time. :-) Oh well.

I do like the radio, and I do not think the operation is as difficult as some have said (ref: statements made to always carry the manual). I do refer back to the manual for some of the more esoteric features I don't use often, but most things are rather straight forward and logical.

73

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Wm. A. Kirsanoff	Internet: WAKIRSAN@ananov.remnet.ab.com
Rockwell International	Ham: KD6MCI
(714) 762-2872	
Alternate Internet: william_a._kirsanoff@ccmail.anatcp.rockwell.com	

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Who are you? \* I am number 2. \* Who is number 1? \* You are number 6.

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Date: Mon, 18 Oct 1993 19:22:09 GMT  
From: spsgate!mogate!newsgate!nuntius@uunet.uu.net  
Subject: MOTOROLA  
To: info-hams@ucsd.edu

Subject: Re: MOTOROLA  
From: John De Armond, jgd@dixie.com  
In article <k=#1cpj@dixie.com> John De Armond, jgd@dixie.com writes:  
>Jim Jaskie <jim\_jaskie@tempeqm.sps.mot.com> writes:  
>  
>>>They hired 2 engineers, propably EE grad students, and they pay them  
>>>\$4.65/hour to write the code. It took these 2 people a few months to  
do  
>>>the work.  
>  
>  
>>Let's see, you must be at a school. Ah, University of Iowa. That  
>>explains it.  
>  
>>How many commercial products have you developed with a "DPS" (Department  
>>of Public Service chip?) and a book from a local bookstore. If you or  
>>your friends with actual, real, degrees from recognized schools (and you  
>>actually know more about engineering than this post let's on) are only



>>paid \$4.65/hour, let me know. I've got a bunch of work for you.  
>  
>>Thank you for welcoming me to the real world. Fortunately (or  
>>unfortunately depending on how you look at) I've been in the real world  
>>(tm) for awhile now. Let me know when they let you have a real peek.  
>  
>Oh, I don't know. Almost 10 years ago I designed from scratch  
>a fully synthesized wide band high power 2 meter radio and built it into  
>an old Motorola pack set chassis. Took me about a month of hobby time  
>to do the deed. Based on my experience slinging code and designing  
>other hardware for most of the intervening years, I'd guess it might  
>take me 6 months to do a commercial-grade synthesizer in DSP.  
>  
>Tellya what. If you boys out there in the Real World think it takes  
>millions of dollars to develop a 2-way radio, boy, do I have a deal  
>for you. I'll do it for HALF the money. That'll give you Motorolans  
>plenty of time to fill those little pee cups.  
>  
>John  
>  
>--  
>John De Armond, WD40QC | For a free sample magazine,  
send  
>Performance Engineering Magazine(TM) | a digest-size 52 cent SASE  
>Marietta, Ga "Hotrods'n'computers" | (Domestic) to PO Box 669728  
>jgd@dixie.com "What could be better?" | Marietta, GA 30066  
>Email may be published at my sole discretion.

John, I've commented before about how I always read your postings,  
because they usually have merit (OK, I admit I missed the one where you  
discussed "geezer tipping" at ham fests). But, tell you what John, next  
time I fill one of those little pee cups, I'll think of you. I'll  
probably also think of you the next time I practice filling a cup.

Now, I've built many things, and written many pieces of software that  
didn't cost me millions also. I've also written newsletters and  
"magazines" in my off time. The real test of whether what you or I have  
done with our time is something worth while (competitive), is not what we  
think. It is what the free market thinks of our work.

I gather that you feel that your "fully synthesized wide band high power  
2 meter radio" was such a competitive piece of work, that you must have  
sold millions by now (hundreds of thousands?). In the face of free  
market discipline, I gather you're making a fortune. Good. That's the  
way it should be. If you're willing to do it for \$4.65/hour let me  
know. I'm sure we can make a deal, I might be willing to go as high as  
\$6.00/hour for your efforts (only successful ones, please).

This reminds me of a friend who put about 3000 hours into a hotrod he was building over several years. Since he was a professional welder, he figured his time at around \$15/hour. This meant he had about \$45,000 into his rod (according to his calculations), not counting parts and materials (he also ignore the benefits his employer provided in calculating his hourly rate). He worked this all out, and decided to sell his rod. He offered it for a \*steal\* at only \$30,000. Well, the market didn't seem to have the same view of his work that he did. He ended up getting about \$2.00/hr. Seems that what he thought was as good as other, more famous builders, wasn't considered as highly by the marketplace. I'm sure you've designed radios as good as, no, better, than anybody else's. I'm sure they were manufacturable and of the highest quality. I'm sure that your software slinging was also the best.

I expect that you sold them for a fortune. No, that can't be right. You were arguing that \$4.65 was about what these talents are worth in the marketplace, certainly not a fortune. hmmm. But you seem to think Motorola sells its radios for millions while they only cost thousands to design. So your design must be cleaning up, but that would mean you are getting more than \$4.65/hr for your time. If you're getting \$4.65/hour, or less, for your time, which seems to be your argument, you might want to reconsider your market strategy. Your design is selling well isn't it?

Or, could it be that you are not trying to discuss the subject of whether or not good engineering skills cost more than \$4.65/hr on the free market, but are rather slashing out (almost psychotically ^1) against Motorola for its drug testing policy. If that is your real complaint against my comments, I won't even bother you with the remark that you are free to work for anyone you please, and to not work for, or trade with, anyone you please. I will however point out, that while I find my employer's drug testing odorous (no pun intended), I do believe that anyone, including you, should have the right to ask the people that they pay, to demonstrate certain abilities. These include the ability to work, and to pass a ridiculously simple I.Q. test, such as our drug test.

You will notice that Motorola's employment didn't fall by thousands upon introduction of this test. (Maybe, its because all of them, that I have ever met, are paid more than \$4.65/hour. And that includes those on the manufacturing line.) If you think employers shouldn't be free to ask these things, why don't you start a thread discussing that, not making arguments about engineering wages that only embarrass yourself?

<sup>1</sup> psychosis n., pl. psychoses (-sez).

A severe mental disorder, with or without organic damage, characterized by derangement of personality and loss of contact with reality and causing deterioration of normal social functioning.

"They don't have a right to put their hands in my pockets" - General George Washington

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Date: Mon, 18 Oct 1993 19:46:26 GMT  
From: dog.ee.lbl.gov!agate!news.ucdavis.edu!othello.ucdavis.edu!  
ez006683@network.ucsd.edu  
Subject: Newsline #842  
To: info-hams@ucsd.edu

Gary Swiger (garys@Ingres.COM) wrote:

: I think it's a sad day for Amateur Radio when any special interest group tries  
: to use Amateur Radio as a platform to promote their ideals - this is not the  
: purpose of Amateur Radio...

Is this a reference to the ARRL using amateur radio to promote  
heterosexual only lifestyles at the exclusion of other lifestyles? Or at  
Lambda for trying to allow people with a certain lifestyle to meet each  
other?

Of course this is a rhetorical question! :-) The point is you should  
always look at these issues as if the minority were the majority and would  
your opinions differ. REmember political and social views can be implicit  
as well as explicit.

73  
Dan  
--

\*-----\*  
\* Daniel D. Todd           Packet: KC6UUD@WA6RDH.#nocal.ca.usa           \*  
\*                           Internet: DDTODD@ucdavis.edu                \*  
\*                           Snail Mail: 1750 Hanover #102               \*  
\*                           Davis CA 95616                               \*  
\*-----\*  
\*           I do not speak for the University of California....       \*  
\*           and it sure as hell doesn't speak for me!!                \*  
\*-----\*

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Date: 18 Oct 93 20:09:29 GMT  
From: ncrgw2.ncr.com!ncrhub2!ncrc1m!tskelton@uunet.uu.net  
Subject: Reciprocal agreements with other countries  
To: info-hams@ucsd.edu

In article <29uhp8\$cjk@skates.gsfc.nasa.gov> mitchell@aol12.wff.nasa.gov  
(Richard Mitchell 1026) writes:

>Content-Transfer-Encoding: 7bit

>

>Does anyone know if Ecuador has a reciprocal license agreement with  
>the U.S. for amateur radio and/or how one goes about getting  
>permission to operate there? How much lead time should does  
>someone need when doing this?

Ecuador certainly has reciprocal licensing with the US.

This is witnessed by the large number of US hams that go there for  
work, vacation and contesting...including the Galapagos Islands. If  
you don't have the ARRL's address, write to: Member Services,  
ARRL, 225 Main St., Newington, CT 06111 and request a licensing form  
for Ecuador. I think it can be done quickly, in terms of just a few  
weeks. gl! 73, Tom WB4IUX

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Date: 18 Oct 93 19:21:58 GMT

From: ncrwgw2.ncr.com!ncrhub2!ncrc1m!tskelton@uunet.uu.net

Subject: ZD9SXW - QRT 160m (+80m?)

To: info-hams@ucsd.edu

In article <1993Oct15.075649.13994@syma.sussex.ac.uk> mpfb8@syma.sussex.ac.uk  
(Peter Reed) writes:

>Due to very severe storm winds, Roger's 160m vertical is now a folded  
>vertical and 160m has, therefore, come to an end.

>It is possible that 80m operation will be very restricted also due to  
>antenna damage.

>However, he is certainly making up for it on the other bands!

>

>GL...73...Peter, G4BVH.

I am but one of eternally grateful DX'ers to thank Roger for a ZD9  
CW QSO..in my case I have him on 40 and 10 meters. However, I am  
still without an 80 meter QSO (ok Derrick, I'm being churlish again)  
as are many others. If anyone can urge him to do so, please ask that  
he spend some more time on 80 meters with whatever antenna he can make  
work! He is terribly hindered as the power usually goes off at 0000 UTC  
each night. Congrats to all you chaps who have him on the WARC bands;  
he has done an admirable of working those bands but I don't currently  
have any 30/17/12 meter antennas up. 73, Tom WB4IUX

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Date: 18 Oct 1993 19:41:50 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!  
usenet.ins.cwru.edu!lerc.nasa.gov!news.larc.nasa.gov!grissom.larc.nasa.gov!  
kludge@network.ucsd.edu  
To: info-hams@ucsd.edu

References <CF2xps.16K@news.Hawaii.Edu>, <29ufitINNirh@network.ucsd.edu>,  
<CF3uvn.M5J@sugar.NeoSoft.COM>ru.  
Subject : Re: BESTIALITY AMATEUR RADIO FRATERNITY (BARF)

In article <CF3uvn.M5J@sugar.NeoSoft.COM> sfarlow@NeoSoft.com (Stephen Farlow)  
writes:

>WHAT IN THE WORLD DOES THIS HAVE TO DO WITH AMATEUR RADIO ?  
>IS SEXUAL PERVERSION CREEPING INTO IT NOW ???  
>

Yes, didn't you realize that exposure to high levels of nonionizing  
radiation causes homosexuality? Get rid of all that dangerous radio  
equipment. Proper disposal is essential. Send it to:

Radio Disposal  
Box 36681  
Atlanta, GA. 30332

--scott  
--

"C'est un Nagra. C'est suisse, et tres, tres precis."

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End of Info-Hams Digest V93 #1241  
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